

GRB/SF Science Team Action Items

Collection of action items initiated: Friday, June 7, 2002

Assignments to begin soon.

1. The two C++ GRB simulation codes, should stay in repository at SLAC with links to the modules' whereabouts and with short descriptions on the GRB Science team web site.
2. GRBsim and GRBmaker modules should be integrated into one library, for mutual benefit and efficiency.
3. GRB simulations should be extended into GBM range to exercise GBM-LAT combined analysis tools. How to best to do simulate GBM regime, given the large fluxes at lower energies, and to combine with LAT simulations? (And how to arrive at a first realization of this goal in the near term?)
4. We should find out to what level GLAST investigators will be able to access the AGILE GRB data, especially for GLAST analysis preparations (Francesco et al. to inquire). Also, Francesco asks if the Eclair mission's GRB data would be relevant to GLAST? Brenda answers yes. (Can we hope to access the Eclair data for joint analysis with GLAST? Eclair will complement the GBM's coverage of GRBs at low energy.)
5. Considering that, even in bright bursts, short time intervals could easily contain as few as ~ 10 LAT photons, (non)binning approaches need to be carefully considered. We should exercise GRB simulations through analysis tool A5 (prototype?) to this end, especially remembering treatment of every (likely) high-energy photon from the burst.
6. The standard likelihood tool needs to be tested (modified) for its ability to provide GRB localizations, especially near the limit of detection. (Editor's note: a central consideration here may be the steps preceding use of likelihood, where photon set to be analyzed is selected.)